Application Serial No. <u>09/043,933</u> Attorney's Docket No. <u>032751-027</u>

polypeptides of a papillomavirus and DNA sequences coding for the late L1 and L2 polypeptides of a papillomavirus; said DNA sequences being placed under the control of the elements necessary for their expression in a host cell or organism.

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- 40. (Twice Amended) The composition of claim 32, wherein said E6 and E7 polypeptides are nononcogenic variants of the native E6 and E7 polypeptides of a papillomavirus.
- 44. (Twice Amended) A composition consisting of (i) one or more recombinant vectors into which are inserted DNA sequences coding for the early E6 and E7 polypeptides of a papillomavirus and DNA sequences coding for the late L1 and L2 polypeptides of a papillomavirus; said DNA sequences being placed under the control of the elements necessary for their expression in a host cell or organism and (ii) one or more recombinant vectors into which is inserted a DNA sequence coding for one polypeptide having an immunostimulatory activity wherein said DNA sequence is placed under the control of the elements necessary for its expression in a host cell or organism and wherein said polypeptide having an immunostimulatory activity is selected from the group consisting of interleukin-2, interleukin-7, the co-adhesion molecule B7.1 and the co-adhesion molecule B7.2.

- 48. (Twice Amended) The composition of claim 44, consisting of one recombinant vector into which is inserted:
 - (a) a DNA sequence coding for the E6 polypeptide of a papillomavirus, a DNA sequence coding for the E7 polypeptide of a papillomavirus, a DNA sequence coding for the L1 polypeptide of a papillomavirus, a DNA sequence coding for the L2 polypeptide of a papillomavirus and a DNA sequence coding for the co-adhesion molecule B7.1, or
 - (b) a DNA sequence coding for the E6 polypeptide of a papillomavirus, a DNA sequence coding for the E7 polypeptide of a papillomavirus, a DNA sequence coding for the L1 polypeptide of a papillomavirus, a DNA sequence coding for the L2 polypeptide of a papillomavirus and a DNA sequence coding for interlegikin-2.
- 49. (Amended) The composition of claim 48, wherein said E6 and E7 polypeptides are, respectively, nononcogenic variants of the native E6 and E7 polypeptides of a human papillomavirus.
- 50. (Amended) The domposition of claim 49, wherein said nononcogenic variant of the E6 polypeptide is the native HPV-16 E6 polypeptide deleted of amino acids 111-115.



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- 51. (Amended) The composition of claim 49, wherein said nononcogenic variant of the E7 polypeptide is the native HPV-16 E7 polypeptide deleted of amino acids 21-26.
- 53. (Amended) A method for the treatment or prevention of dysplasia or cancer of the neck of the uterus, comprising administering an effective amount of the composition of claim 43 to a patient in need of such treatment.
- 57. (Amended) The composition of claim 40, wherein said nononcogenic variant of the E6 polypeptide is the native HPV-16 E6 polypeptide deleted of amino acids 111-115.
- 58. (Amended) The composition of claim 40, wherein said nononcogenic variant of the E7 polypeptide is the native HPV-16 E7 polypeptide deleted of amino acids 21-26.
- 65. (Amended) A composition consisting of one or more recombinant vectors into which are inserted (i) DNA sequences coding for the E6 polypeptide of a papillomavirus and for the E7 polypeptide of a papillomavirus and (ii) one DNA sequence coding for a polypeptide having an immunostimulatory activity; said DNA sequences being placed under the control of the elements necessary for their expression in a host cell or organism and wherein said polypeptide having an immunostimulatory activity is selected from the group consisting of interleukin-2, interleukin-7, the co-adhesion molecule B7.1 and the co-adhesion molecule B7.2.

- 74. (Amended) The composition of claim 65, consisting of one recombinant vaccinia virus from the Copenhagen or MVA strain into which is inserted a DNA sequence coding for the E6 polypeptide of HPV-16, a DNA sequence coding for the HPV-16 E7 polypeptide and a DNA sequence coding for interleukin-2.
- 75. (Amended) The composition of claim 65, wherein said E6 and E7 polypeptides are, respectively, nononcogenic variants of the native E6 and E7 polypeptides of a human papillomavirus.
- 76. (Amended) The composition of claim 75, wherein said nononcogenic variant of the E6 polypeptide is the native HPV-16 E6 polypeptide deleted of amino acids 111-115.
- 77. (Amended) The composition of claim 75, wherein said nononcogenic variant of the E7 polypeptide is the native HPV-16 E7 polypeptide deleted of amino acids 21-26.